

ABSTRACT

A distributed data center system protocol is provided which includes providing a client having a failure detector, a primary data center, and a backup data center operatively interconnected. A transaction operation is provided from the client to the primary database server in the primary data center and the backup database server for execution. If the client detects a failure or suspects a failure of the primary database server, the transaction operation is provided to the backup database server, which becomes the new primary database server. The database server executing the transaction operation returns the executed transaction operation to the client. If the primary data center suffers a disaster, the backup data center takes over control.